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About the Cover

At the Advanced Light Source:

Interior of a photoelectron microscope (top left) shows the conical electron lens that images photoelectrons, and the sample-mounting area opposite it.

Deep-etch lithography (top right) made possible by high-intensity X-rays is used to create miniaturized motors.

Analysis of interference patterns in X-ray lenses (bottom left) is part the testing procedure for mirrors and lenses to be used in manufacturing tomorrow's computer chips.